# This Page Is Inserted by IFW Operations and is not a part of the Official Record

# **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

# IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

#### (12)

#### **EUROPEAN PATENT APPLICATION**

- (88) Date of publication A3: 30.12.1998 Bulletin 1998/53
- (51) Int. Cl.6: G11B 20/00

- (43) Date of publication A2: 26.11.1997 Bulletin 1997/48
- (21) Application number: 96118541.0
- (22) Date of filing: 19.11.1996
- (84) Designated Contracting States: DE FR GB
- (30) Priority: 20.05.1996 JP 124823/96
- (71) Applicant: FUJITSU LIMITED
  Kawasaki-shi, Kanagawa 211-8588 (JP)
- (72) Inventors:
  - Akiyama, Ryota
     Nakahara-ku, Kawasaki-shi, Kanagawa 211 (JP)
- Yoshloka, Makoto Nakahara-ku, Kawasaki-shi, Kanagawa 211 (JF)
- Uchida, Yoshlaki
   Nakahara-ku, Kawasaki-shi, Kanagawa 211 (JP)
- (74) Representative:
  Schmidt-Evers, Jürgen, Dipl.-ing. et al
  Patentanwälte Mitscherlich & Partner,
  Sonnenstrasse 33
  80331 München (DE)

#### (54) Software copying system

A software copying system which enables copyrighted software recorded in a master storage medium (1; 60) to be copied to a user's target storage medium (3; 40) in a legitimate manner. A contents identifier reading unit (2) reads out a software identifier (SIDi; DID) from the master storage medium (1; 60), while a storage medium identifier reading unit (4) reads out a storage medium identifier (IDk; Mid) from the target storage medium (3; 40). The two identifiers are then sent to a central site (5) which manages licenses for the right to copy software products. At the central site (5), a signature generating unit (6) produces a first signature (CS) from those identifiers and sends it back to the user's site, where a signature writing unit (7) writes the received signature into the target storage medium (3; 40). A signature generating/comparing unit (8) produces a second signature (CS) out of the same identifiers as those sent to the central site (5), and compares it with the first signature (CS) stored in the target storage medium (3; 40). A data copying unit (9) copies the subject software data file from the master storage medium (1; 60) to the target storage medium (3; 40), only when the first and second signatures (CS, CS') coincide with each other.

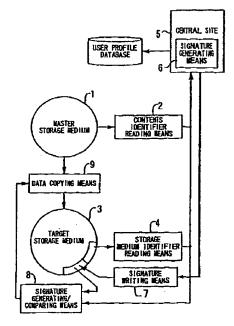


FIG. 1



Application Number EP 96 11 8541

		ERED TO BE RELEVANT		
Category	Citation of document with of relevant pas:	indication, where appropriate, sages	Refevant to claim	CLASSIFICATION OF THE APPLICATION (Inl.C),5]
Υ	US 4 658 093 A (HE 14 April 1987 * column 4, line 4 * column 11, line	5 - line 63 *	1	G11B20/00
A	* figures 2,6,7 *		2-5	
Y A	EP 0 302 710 A (IBI * column 2, line 5	M) 8 February 1989 6 - column 3, line 28 *	1 2-7	
A	US 5 182 770 A (LUI 26 January 1993 * column 1, line 5 * column 5, line 4 * column 6, line 6 * column 6, line 6 * figures 3,4 *	4 - line 61 * 7 - line 52 *	1-7	
A	EP 0 665 486 A (AT * column 6, line 29	& T CORP) 2 August 1995 9 - column 7, line 58 *	1-7	
Α .	"SECURE SOURCE DA' PARTY SYSTEM" IBM TECHNICAL DISCI vol. 37, no. 48, 1 623-625, XP0004513	April 1994, pages		TECHNICAL FIELDS SEARCHED (Int.CLS) G11B G06F H04L
		-		
	The present search report has	been drawn up for all claims		
	Place of search THE HAGUE	Oate of completion of the search 4 November 1998	Con	Examines on M
X : partic Y : partic doour A : techn O : non-1	TEGORY OF CITED DOCUMENTS outlarly relevant if taken alone outlarly relevant if combined with anot ment of the same catingory tological background written disclosure mediate document	T: theory or principle E: earlier patent door after the filing date	underlying the in ument, but public the application rother reasons	hed on, ar

(11) EP 0 849 734 A3

(12)

#### **EUROPEAN PATENT APPLICATION**

- (88) Date of publication A3: 24.03.1999 Bulletin 1999/12
- (51) Int. Cl.6; G11B 20/00, G1 1B 23/28

- (43) Date of publication A2: 24.06.1998 Bulletin 1998/26
- (21) Application number: 97122526.3
- (22) Date of filing: 19.12.1997
- (84) Designated Contracting States:

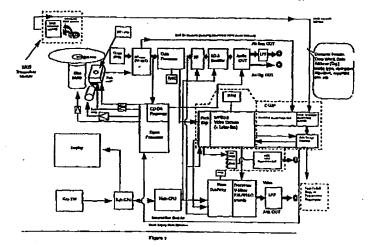
  AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC
  NL PT SE

  Designated Extension States:
  AL LT LV MK RO SI
- (30) Priority: 20.12.1996 US 33543 P
- (71) Applicant: Texas Instruments Incorporated Dallas, Texas 75251 (US)

- (72) Inventors:
  - Nerlikar, Virupax (Madhu)
     Plano, Texas 75023 (US)
  - Edenson, Roy I.
     Richardson, Texas 75081 (US)
- (74) Representative: Schwepfinger, Karl-Heinz, Dipl.-Ing. Prinz & Partner GbR Manzingerweg 7 81241 München (DE)
- (54) Improvements in or relating to security systems
- (57)The invention consists of attaching or embedding a "TIRIS" transponder (or other RF or IR or barcode or other identifying device) physically into the center of the proposed DVD disk. Once a disk is input to a media player, the interrogation portion of the media player transmits an interrogation signal to the transponder located on the disk. Once empowered with the interrogation signal, the transponder accesses the predetermined address, code word, encryption algorithms, media type information, and copyright information from it's memory. Then the transponder transmits the address, the code word, encryption algorithms, media type information and copyright information to the interrogator, located within the media player, and the interrogator sends the transponder data stream to a conditional access management processor(CAMP).. Simultaneously with the processing action of the CAMP, the interrogator instructs the player to access the data\_word at the predetermined address on the disk and the player accesses the data\_word on the disk. The media player only plays if there is a match between the read data\_word and received code word and the received algorithm correctly decrypts the content of the media prior to decoding.

#### EP 0 849 734 A3

### Block Diagram of DVD Player (ROM Type for Published Media) + TIRIS cypher





Application Number

EP 97 12 2526

	DOCUMENTS CONSID			<del></del> _
Саюдогу	Citation of document with a of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cls)
A	US 5 461 386 A (KNE 24 October 1995 * abstract * * column 1 * * column 2 * * column 3, line 1 * column 4, line 37 * column 5, line 1	- line 49 * - line 67 *	1,5	G11B20/00 G11B23/28
A	* figures IA,1B.1C *  "TIRIS ZET AUTODIE POLYTECHNISCH TIJDS ELEKTROTECHNIEK, ELI vol. 49, no. 5, May XP000454909 * the whole document	* VEN OP ZIJSPOOR" CHRIFT, EKTRONICA, 1994, page 7	1,5	
,	US 5 287 112 A (SCHU 15 February 1994 * abstract * * column 1, line 1 -	 JERMANN JOSEF H)	1,5	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	US 4 827 395 A (ANDE 2 May 1989 * abstract * * column 1. line 50 * column 3 * * column 4. line 1 - * column 6. line 25 * column 7 * * column 8. line 1 - * column 11. line 6 * column 11, line 55 * column 12, line 1 * column 19, line 1	TRS FRANK W ET AL)  - line 68 *  line 14 *  - line 68 *  - line 68 *  - line 16 *  - line 16 *	1,5	TECHNICAL FIELDS SEARCHED (Int.CL6) G11B G01S G06K G07C H04L
7	he present search report has be	en drawn up for all claims	-	
ρ	lacs of sparch	Date of completion of the search	<del></del>	Exercises
T	HE HAGUE	1 February 1999	Baro	l-Faucheux, C
X : particul Y : particul docume	EGORY OF CITED DOCUMENTS larly relevant if taken alone stry relevant if combined with another wit of the same calegory opcal background	T : theory or prince E : earlier patent d	ple underlying the invitoriment, but publish late in the application	ANIAN

EPO FORM 1503 03.82 (POLCO)



Application Number EP 97 12 2526

Category	Citation of document wit of relevant pa	h indication, where appropriate,	Relevant	CLASSIFICATION OF TH
A	US 5 499 017 A (BI 12 March 1996 * abstract * * column 1 * * column 2, line 1 * column 3, line 6 * column 4, line 1	EIGEL MICHAEL L)  1 - line 26 * 55 - line 67 *	to clawn	APPLICATION (MLCL6
А	US 5 430 441 A (B) 4 July 1995 * abstract * * column 1, line 1	ICKLEY ROBERT H ET AL)	1,5	
A	US 4 918 955 A (KI 24 April 1990 * abstract * * column 3, line 1 * figure 3 *	MURA TAKASHI ET AL)  0 - line 34 *	1,5	
- 1	US 5 245 332 A (KA 14 September 1993 * abstract *	TZENSTEIN HENRY S)	1,5	TECHNICAL FIELDS SEARCHED (Int.CI.6
	EP 0 805 575 A (TE 5 November 1997 * abstract * * page 2 * * page 3. line 1 - * page 4, line 20 * page 5 * * page 6 * * figure 4 *	XAS INSTRUMENTS INC) line 52 * - line 59 *		
		/		
	The present search report has	been drawn up for all claims  Outs of completion of the stauth		
7	HE HAGUE	1 February 1999	Rare	Examiner   -Faucheux, C
X : particu Y : particu docum A : techno O : non-w	EGORY OF CITEO DOCUMENTS illarly relevant if taken alone larly relevant if combined with anot ent of the same category logical background ritten disclosure addiate document	T : theory of principle E : earlier patent door	underlying the inv ment, but publish the application other reasons	ention ad on, or

4



Application Number

EP 97 12 2526

		RED TO BE RELEVANT	·	
Category	Citation of document with Ind of relevant passag	ication, where appropriate, ges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
<b>A</b>	of relevant passac US 5 450 087 A (HURT. 12 September 1995 * abstract * * column 2, line 21 * column 3, line 1 - * column 3, line 65 * column 4, line 1 - * column 7, line 44 * column 18, line 51 * column 19, line 1 -	- line 68 * line 3 * line 9 * line 47 * line 68 *		CLASSIFICATION OF THE APPLICATION (Int.CIS)  TECHNICAL FIELDS SEARCHED (Int.CI.6)
CATE  CATE  Cate  particula  particula  cocumen	he present search report has been seed assemble. HE HAGUE  GORY OF CITED DOCUMENTS  Inty relevant if taken alone with relevant d combined with another at of the seme category gical background	drawn up for all claims  Oate of completion of the search  1 February 1999  1 * theory or principle E * earlier potent doc after the filling date 0 * document claid in L * document claid in	underlying the lave ment, but publishe	Examinar  —Faucheux, C  milon of on, or

5

#### EP 0 849 734 A3

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 97 12 2526

This arriex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-02-1999

	Patent documented in search rep		Publication date		Patent family member(s)		.	Publication date
US	5461386	A	24-10-1995	JP	8296354	A	 1	2-11-19
				. U\$	5561430	A		1-10-19
US	5287112	A	15-02-1994	ЕP	0674298	A	2	7-09-19
				JP	7131376	Α	1	9-05-19
				US	5374930	A		0-12-19
US	4827395	A	02-05-1989	ŲS	4656463	Α		7-04-19
				CA	1249359	A		4-01-19
				FR	2544867	Α	2	6-10-19
				GB	2141006	A.B	ō	5-12-19
_				JP				4-06-19
US	5499017	A	12-03-1996	AU	665797	В	1	8-01-19
				EP	0615645	A	2	1-09-19
				JP	7504771	T	2	5-05-19
US	5430441	A	04-07-1995	NONE				-,
US	4918955	Α	24-04-1990	JP	1737326	C	2	6-02-19
				JP	4015141		_	7-03-19
	·			JP			2	3-04-19
US	5245332	A	14-09-1993	CA	1316268	Α		 3-04-19
				DE	68928801		_	8-10-19
				30	68928801	Ť	_	4-01-19
				EP	0347893	A	Ž	7-12-19
				JP	2051931	A	-	1-02-19
EP	0805575	A	05-11-1997	JP	10075241	Α	1	7-03 <b>-1</b> 9
US	5450087	Α	12-09-1995	JP	8084095	Α	2	6-03-19
			•	IJS				1-11-19

For more details about this armsx : see Official Journal of the European Patent Office, No. 12/82